MOOG

Installation and Operation Instructions

Before attempting to connect or operate this product, please read these instructions completely.

1/4” 25x High Resolution WDR Zoom Camera with NTSC

Power Zoom Camera System

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81-IN5494 120613

IMPORTANT SAFEGUARDS

1 Read these instructions.
2 Keep these instructions.
3 Heed all warnings
4 Follow all instructions.
5 Do not use this apparatus near water.
6 Clean only with damp cloth.
7 Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8 Cable Runs- All cable runs must be within permissible distance.
9 Mounting - This unit must be properly and securely mounted to a supporting structure capable of sustaining the weight of the unit.

Accordingly:

a. This installation should be made by a qualified service person and should conform to all local codes.
b. Care should be exercised to select suitable hardware to install the unit, taking into account both the composition of the mounting surface and the weight of the unit.

10 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
11 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
13 Only use attachment/ accessories specified by the manufacturer.
14 Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
15 Unplug this apparatus during lighting storms or when unused for long periods of time.
16 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled of objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Be sure to periodically examine the unit and the supporting structure to make sure that the integrity of the installation is intact. Failure to comply with the foregoing could result in the unit separating from the support structure and falling, with resultant damages or injury to anyone or anything struck by the falling unit.

UNPACKING

Unpack carefully. Electronic components can be damaged if improperly handled or dropped. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper.

Be sure to save:

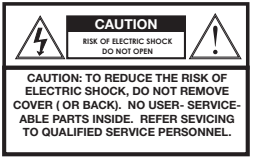
1 The shipping carton and packaging material. They are the safest material in which to make future shipments of the equipment.
2 These Installation and Operating Instructions.

SERVICE

If technical support or service is needed, contact us at the following number:

TECHNICAL SUPPORT
AVAILABLE 24 HOURS
1 - 800 - 554 -1124

SAFETY PRECAUTIONS


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER- SERVICE-ABLE PARTS INSIDE. REFER SEVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk to persons.

Este símbolo se piensa para alertar al usuario a la presencia del “voltaje peligroso no-aislado” dentro del recinto de los productos que puede ser un riesgo de choque eléctrico.

Ce symbole est prévu pour alerter l'utilisateur à la presence “de la tension dangereuse” non-isolée dans la clôture de produits qui peut être un risque de choc électrique.

Dieses Symbol soll den Benutzer zum Vorhandensein der nicht-Isolier “Gefährdungsspannung” innerhalb der Produkteinschließung alarmieren die eine Gefahr des elektrischen Schlages sein kann.

Este símbolo é pretendido alertar o usuário à presença “di tensão perigosa non-isolada” dentro do cerco dos produtos que pode ser um risco de choque elétrico.

Questo simbolo è inteso per avvertire l'utente alla presenza “di tensione pericolosa” non-isolata all'interno della recinzione dei prodotti che puó essere un rischio di scossa elettrica.

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Este símbolo del punto del exclamation se piensa para alertar al usuario a la presencia de instrucciones importantes en la literatura que acompaña la aplicación.

Ce symbole de point d'exclamation est prévu pour alerter l'utilisateur à la presence des instructions importantes dans la littérature accompagnant l'appareil.

Dieses Ausruf Punktsymbol soll den Benutzer zum Vorhandensein de wichtigen Anweisungen in der Literatur alarmieren, die das Gerät begleitet.

Este símbolo do ponto do exclamation é pretendido alertar o usuário à presença de instruções importantes na literatura que acompanha o dispositivo.

Questo simbolo del punto del exclamaton è inteso per avvertire l'utente alla presenza delle istruzioni importanti nella letteratura che accompagna l'apparecchio.

MADE IN USA
BUY AMERICA COMPLIANT • COUNTRY OF ORIGIN U.S.A.

overview

FCC STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS :

1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND

2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Caution

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT.

THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

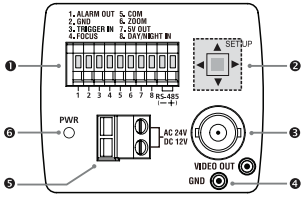
IC COMPLIANCE NOTICE

THIS CLASS A DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE.-CAUSING EQUIPMENT REGULATIONS OF ICES-003.

FEATURES

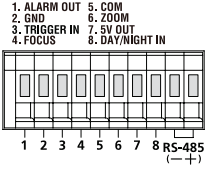
- With the sta te-of-the-art digital signal processing technology, full digital image processing and special algorithm of 600-line high resolution implemented.
- High Sensitivity: It implements images of high sensitivity using the up-to-date ExView-HAD PS CCD.
- VPS(Virtual Progressive Scan): This is an advanced technology that reproduces a sharp progressive image. This is appropriate to high quality recording and file transfer via the Internet.
- High performance surveillance camera, equipped with x25 zoom lens and digital zoom IC, enabling monitoring up to 400 times
- WDR extends the contrast range as it takes a picture of each of dark and bright areas before compositing the two, which is useful if you take a picture of windows inside a building. Namely, it improves the picture quality of the outdoor scenery as well as indoor.
- Low Illumination: It uses the digital signal technologies such as low illumination and Day/Night functions that make your camera identify objects even in the worst environment.
- XDR (eXtended Dynamic Range): Actively controls the gamma compensation in the way it operates the ambient luminance contrast in a certain pixel unit to determine the optimal visibility.
- DAY/NIGHT: This function can make the IR Cut filtering function inactive under the illumination below the normal value.
- White B alance to control the brightness to the illumination
- Superior Backlight Adjustment:When an object has a bright illumination or sunlight behind it, this camera automatically improves the shaded object picture quality.
- Auto Focus to automatically adjust the focus to the subject movement
- Privacy zone to hide a specific area for personal privacy.

Rear Panel



❶ Input/Output Connector

This connector has input and output ports for RS-485 control signals, DAY/NIGHT switching, and alarm output signals.



1. ALARM OUT
Alarm out jack for motion detection. (Open Collector, On Gnd)

2. GND
Grounding jack.

3. TRIGGER IN

Displays the current still image when it r eceives the T rigger signal. (Normal Open Type)

4.5.6 FOCUS, COM, ZOOM

This port is used for ZOOM/FOCUS, MENU CONTROL, HOME RETURN, and ONEAF by using an external controller.
Depending on the input condition, 4 modes, A, B, C, and D are available. (SPECIAL - CTRL TYPE)
(Operation Voltage Range : +3V~+13V, -3V~-13V)

1) When the voltage is supplied to either ZOOM or FOCUS port

Function *1 / Code	Tele(Up)	Wide(Down)	Near(Left)	Far(Right)
	ZOOM Port		FOCUS Port	
A	-6V	+6V	-6V	+6V
B	-6V	+6V	+6V	-6V
C	+6V	-6V	-6V	+6V
D	+6V	-6V	+6V	-6V

*1: During MENU OFF, controls ZOOM/FOCUS and during MENU ON, changes the direction, Up/Down/Left/Right SETUP switch.

2) When the voltage is supplied to both ports

Function / Code	ENTER/AF *2		HOME RETURN *3	
	ZOOM Port	FOCUS Port	ZOOM Port	FOCUS Port
A	-6V	-6V	+6V	+6V
B	-6V	+6V	+6V	-6V
C	+6V	-6V	-6V	+6V
D	+6V	+6V	-6V	-6V

* 2 : For short voltage supply during MENU OFF, executes ONEAF and for more than 2 second
* 3 : For more than 2 second long voltage supply, moves to the PRESET 0(HOME) position.

7. 5V OUT
Power supply jack for RS-485 JIG. Use within typical DC +5V 100mA.

8. DA Y/NIGHT IN
This is a function to receive the external DAY/NIGHT signal from the sensor(option) and convert the signal into BW.

9. RS-485 DATA-
Jack for connection to RS-485 DATA- signal line.

10. RS-485 DATA+
Jack for connection to RS-485 DATA+ signal line.

❷ SETUP Switch

This switch is used to set the function or pr operty. When this switch is pressed for at least 2 seconds, the MAIN MENU appears.

◄ ► (Left/Right) : By pressing this switch left or right, you can move left or right on the menu or change the displayed value.

▲ ▼ (Up/Down) : By pressing this switch up or down, you can move up or down on the menu.

▣ : When you press this switch in the menu, the selected function is confirmed. To enter a submenu, press this button.

❸ Video OUT Port
This is connected to the Video Input Port of the monitor and it outputs the Video signals.

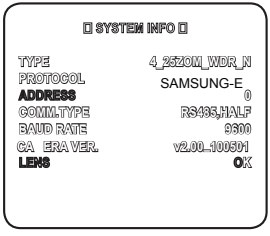
❹ GND
This is a grounding port.

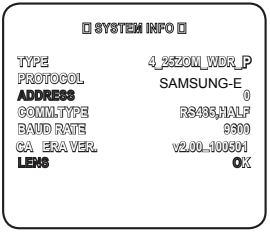
❺ Power Connection Port
This is connected to the Power cable.

❻ Power Display LED
When the power is normally connected, the red LED lights.

installation & connection

4. Determine the type of power supply and set the POWER SELECTION switch accordingly. Next, plug the power adapter into a wall outlet.
5. If the camera operates normally, the following screen will be displayed for 5 seconds and then disappears.





6. The requir ements for RS485 control is as follows :
   - Signaling Speed: 9600 bps
   - Data Bit : 8 bits
   - Stop Bit : 1 bit
   - Parity Bit : none

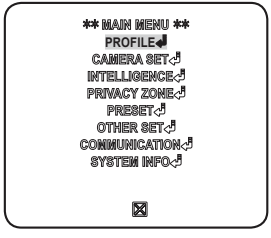
setup

Using OSD icons

- ◄ ► : If these icons appear in the left and right corner of a menu item, you can use them move to the previous or next menu.
- (EXIT): Exits the menu setup screen.
  Before exiting the setup screen, select < SAVE > to save your settings to the whole menus, or <QUIT> to cancel them.
- (RET): Saves your settings and returns to the previous screen.
- (SAVE): Use this icon if you want to save your settings after you specified the mask ar ea and privacy area, etc.
  Once you saved your settings, the changes remain intact even if you select < QUIT > on exit.
- (DEL): Use this icon if you want to delete a mask, or privacy area, etc.
  Once you deleted your settings, the deletions remain valid even if you select < QUIT > on exit.
- : This icon appears in the right of a menu containing sub menu items.

MAIN MENU

This is the first screen you ever see when you turn on the camera where you can set the camera environment to your needs.



- PROFILE
  Select a mode appr--opriate to the camera installation environment.
- CAMERA SET
  You can configure the camera settings.
- INTELLIGENCE
  Offers motion detection and tracking functions.
- PRIVACY ZONE
  You can configure the privacy settings.
- PRESET
  You can set the PRESET POSITION.
- OTHER SET
  You can reset the camera, or adjust the OSD color to your preference.

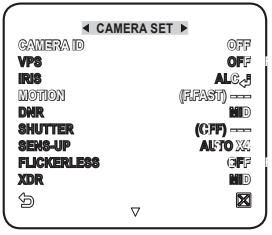
CAMERA SETUP MENU		STANDARD	IT	BACKLIGHT	DAY/NIGHT	GAMING
Parent Menu	Sub-menus					
VPS		OFF	ON	OFF	OFF	OFF
IRIS		ALC	ALC	ALC	ALC	ALC
	ALC	-	-	-	-	-
	LEVEL	0	0	0	0	0
	BACKLIGHT	OFF	OFF	WDR	OFF	OFF
	WDR	-	-	-	-	-
	WEIGHT	Custom Setting	Custom Setting	MEDIUM	Custom Setting	Custom Setting
	WDR LEVEL	Custom Setting	Custom Setting	0	Custom Setting	Custom Setting
	WHITE BAL	Custom Setting	Custom Setting	Custom Setting	Custom Setting	Custom Setting
MOTION		(F.FAST) ---	(F.FAST) ---	NORM	(F.FAST) ---	SLOW
DNR		MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
SHUTTER		OFF	OFF	OFF	OFF	OFF
SENSE UP		AUTO X4	AUTO X2	AUTO X4	AUTO X4	AUTO X4
XDR		MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIUM
DAY/NIGHT		AUTO	AUTO	DAY	AUTO	DAY
	NIGHT	-	-	-	-	-
	BURST	OFF	ON	OFF	OFF	OFF
	EXT	-	-	-	-	-
	BURST	-	-	-	-	-
WHITE BAL		DAY	DAY/NIGHT	DAY	DAY/NIGHT	DAY
	DAY	-	-	-	-	-
	MODE	ATW2	ATW1	ATW1	ATW1	ATW1
	RED	0	0	0	0	0
	BLUE	0	0	0	0	0
	NIGHT	-	-	-	-	-
	BRIGHTNESS	-	MEDIUM	-	MEDIUM	-
	MODE	OFF	ATW2	OFF	ATW2	OFF
	RED	-	0	-	0	-
	BLUE	-	0	-	0	-
DETAIL		2	2	2	2	2

setup

CAMERA SET

You can configure the general settings of the camera module.

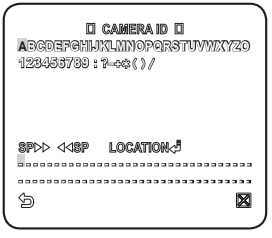
1. Select <MAIN MENU> - <CAMERA SET>.
   The Camera Setup menu appears.
2. Change the settings as necessary, or select an item to check.



CAMERA ID

Provide the ID and location for a camera that displays on the screen.

1. Select <CAMERA SET> - <CAMERA ID>.
2. Use ▲▼ ◀▶ o select a desired character, then press [ENTER].
   In the lower input box of the screen, the selected character will be enter ed.
   - You can enter up to 54 characters including alphabets, numbers and special characters.
   - LOCATION : Specify the display position of the camera ID.
3. When done, press [ENTER].
   The camera ID will be displayed in the specified position.



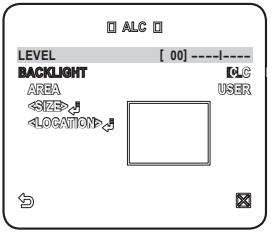
VPS

If you set it to < ON >, the camera images will be displayed in progressive mode.

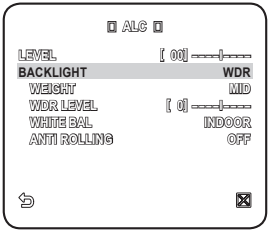
VPS is only available for SCZ-3250P(N) and SCZ-3250PD(ND)

IRIS

The IRIS menu is useful if you set to adjust the intensity of radiation incoming to the camera.



- ALC : Adjust the open and close of the iris.
  - LEVEL : Select an overall brightness level.
  - BLC : With <BACKLIGHT > set to <BLC >, you can specify the BLC area. With AREA set to < USER >, you can specify the position and size.

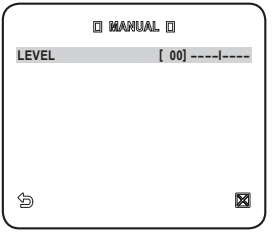


  - WDR : If you set <BACKLIGHT> to <WDR >, you will see a menu where you can set the WDR options. Specify the shutter speed in WDR LEVEL, and, the composition level in < WEIGHT >. Select OUTDOOR, or INDOOR in <WHITE BAL >. The WDR feature provides an extension of the gain range, which is useful, especially if you work on pictures both indoors and outdoors from inside of a building. Namely, it improves the sharpness of the picture in outdoor scenery as well as indoor. <ANTI ROLLING> enables you to reduce the color rolling on the screen.

As long as you use the VPS function, the WDR will not be available as the CCD read method differs accordingly. If you set VPS to ON, WDR will be set to < OFF > accordingly.

WDR is only available for SCZ-3250PD(ND) and SCZ-3250P(N)

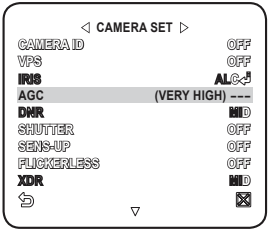
- MANUAL : Adjust the iris level manually.



The overall brightness target of a camera will be set to ALC level 0, while the iris can be adjusted manually.

setup

AGC



With this, you can adjust the AGC level of a camera.
With AGC active, if the signal strength falls below the standard level, AGC will amplify the video signal to automatically improve the sensitivity.
If <SENS-UP> is set to < OFF > or < FIX > mode, the <MOTION> menu will switch to <AGC>.
With the USER ( ) submenu selected, press [ENTER] to display the corresponding screen. In this mode, you can select from VERY LOW to VERY HIGH in 16 levels, enabling deeper, wider choices to your convenience.
With the FIX ( ) submenu selected, press [ENTER] to display the corresponding screen. In this mode, you can select an individualized mode in 16 levels, regardless of the brightness.

- As long as the DAY/NIGHT menu is set to AUTO in Camera Setup, the AGC menu is not available.
- As long as FLICKERLESS is set to ON, the AGC mode is not available.
- If you set BACKLIGHT to WDR, the AGC fix mode is not available.

MOTION

You can specify a level of AGC for controlling the camera motion.
This is available only of the SENSE UP menu is set to AUTO.
Select F.FAST if you want to monitor a very fast moving object in a low contrast scene, and S.SLOW if monitoring a very slow moving, inanimate object in the same condition.

- As long as DAY/NIGHT is set to <AUTO>, the < MOTION > menu is not available.

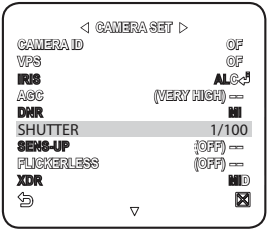
DNR

Reduces the noise on the camera image.
The higher the level is, the greater the effect is.
Set it to < USER > to specify the level.

SHUTTER

You can select a fixed fast electronic shutter speed in 7 options ranging from 1/100 to 1/10k, which is mostly used to take a picture of a fast moving object.

- As long as SENSE UP is set to AUTO, FIXED / FLICKERLESS to ON / BACKLIGHT to WDR,the SHUTTER menu is not available.



SENS-UP

Automatically senses the darkness level at night or in a low contrast scene, and extends the accumulation time accordingly; you can select <AUTO> or <FIX> for a bright and sharp image.

- If the SHUTTER menu is set to fixed electronic shutter mode, the SENSE UP menu will not be available.
- If FLICKERLESS is set to ON,or BACKLIGHT to WDR, the FIX mode of the SENSE UP menu is not available.

FLICKERLESS

This will prevent possible screen distortion due to a mismatch between the vertical sync frequency and the blinking frequency of the lighting; if set to <ON>, the shutter speed will be fixed to 1/100 second.

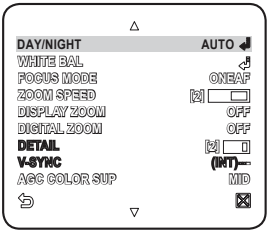
- If SHUTTER is set to FIX, SENSE UP to FIX, and AGC to FIX,the <FLICKERLESS> menu is not available.

XDR

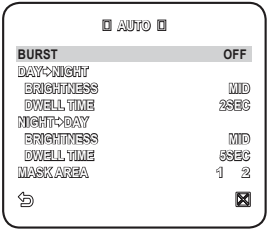
This will correct a brightness difference between different scenes for the optimal visibility by calculating the ambient luminance contrast in a certain unit of pixels. The higher the value is, the higher the correction level is.

DAY/NIGHT

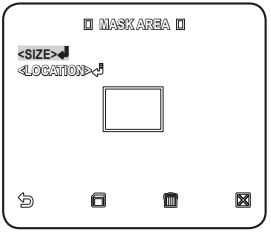
You can specify a recording mode according to the scene.



1. Select <CAMERA SET> - <DAY/NIGHT>.
2. Select a screen transition mode according to the illumination, and set options as appropriate.
   - DAY : Fixed to DAY mode, regardless of the scene.
   - NIGHT : Fixed to NIGHT mode, regardless of the scene.
     If BURST is set to <ON >, the burst signal will be output along with the black-and-white composite video signal.
   - AUTO : According to the luminance, this will switch DAY to NIGHT mode, or vice versa.
     - BURST : If set to <OFF>, the burst signal will not be output in NIGHT mode.
     - DAY NIGHT BRIGHTNESS : Specify the brightness level switching from COLOR to BW filter.
       Adjusting from HIGH to LOW will cause to switch the filter in a darker screen.
     - DAY NIGHT DWELL TIME : Time required to determine the filter switch.



     - NIGHT DAY BRIGHTNESS : Specify the brightness level switching from BW to COLOR filter. Adjusting from HIGH to LOW will cause to switch the filter in a darker screen.
     - NIGHT DAY DWELL TIME : Time required to determine the filter switch.
     - MASK AREA : If there exists a bright spot light source in a night scene, you can specify the size and position as needed. This will prevent an error in switching filter, or failure to determine the filter switch in a night scene where a bright spot light source exists.
       Any excessively bright area in a night scene will be MASKed.



- You can specify MASK 1 and 2 simultaneously
- If <BACKLIGHT> is set to <BLC>, the MASK AREA function is not available.

- EXT : The interface to an external alarm enables an automatic switch between DAY and NIGHT mode.

If you use an infrared light source while in AUTO mode, this may cause a failure in AUTO SWITCH or AUTO FOCUS.

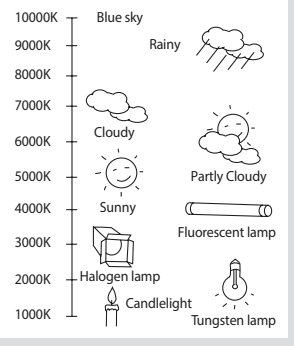
WHITE BAL

If you need to adjust the color according to the ambient illumination, you can use the <WHITE BAL> function.

Illumination is generally referred to as color temperature, which is represented in a measurement of kelvin (K). Color temperatures for ordinary lighting are as follows:

In the <WHITE BAL> menu, you can set a mode for correcting the <WHITE BAL >.

- ATW1,2 : If you set the <WHITE BAL > menu to < ATW1> or <ATW2 > mode, this will monitor the change of the color temperature to correct the < WHITE BAL > as needed.
  The following color temperature ranges are assured in individual modes:
  ATW1 : 2500K ~ 9300K (※1)
  ATW2 : 2000K ~ 10000K
  (suitable to sodium light source) (※2)

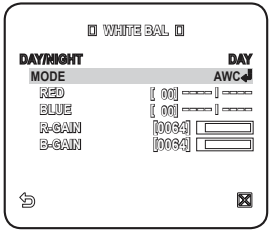


※1 : With <ATW1 > mode active in a color temperature environment ranging beyond between 2500K and 9300K, a proper white balance value may not be produced; if this is the case, you are recommended to use < ATW2 > mode.

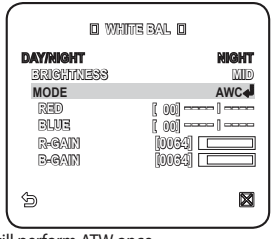
※ With <ATW2 > mode active in a mostly single color environment, the display color and the actual one may differ; so select a mode as appropriate to your color temperature environment.

1. Select <CAMERA SET> - <WHITE BAL>.
2. Select a mode where you set the <WHITE BAL>.
   - DAY : You can set the RED, and BLUE value in DAY mode.
     The screen will be displayed in colors according to your settings.

You can set the R-GAIN, and B-GAIN value only in <AWC> mode.



- NIGHT : You can set the < WHITE BAL > according to the ambient illumination. If NIGHT mode is set to < OFF >, the <WHITE BAL> will operate in a mode specified in DAY mode at all times; otherwise, the screen will switch to a mode specified in < DAY/NIGHT >. You can set the RED, BLUE and BRIGHTNESS value in DAY mode. The screen will be displayed in colors according to your settings.



3. According to the specified recording mode, select a <WHITE BAL> mode with necessary options.
   - ATW1,2 : The camera can automatically adjust the color temperature in real time, according to the ambient conditions. (Color temperature range 1: 2500K ~ 9300K, 2 : 2000K ~ 10000K)
   - AWC : Pressing [ENTER] on a desired item will perform ATW once.

   You can set the R-GAIN/B-GAIN value.

   - 3200K : Set the color temperature to 3200K.
   - 5600K : Set the color temperature to 5600K.
     - BRIGHTNESS : Specify a brightness level switching from DAY mode to NIGHR mode setting.
     - RED : Adjust the strength of the red color.
     - BLUE : Adjust the strength of the blue color.
     - R-GAIN/B-GAIN : Specify the current color temperature manually.

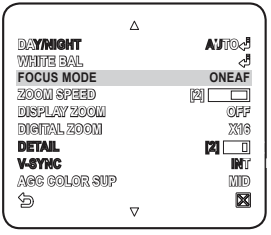
FOCUS MODE

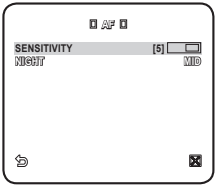
You can select a focus mode according to the angle that you adjusted for camera recording.

- AF : This will monitor the screen continuously to focus automatically. If you adjust

the focus manually, that will operate the same as in <MF>. This will also restore focus after the operation of zoom.

- ONEAF : Restores focus after the operation of zoom, and operates the same as in <MF> unless the operation of zoom is executed.
- MF : You can adjust the focus manually.





While you are working on the following objects,<AF> may not work properly
If this is the case, use <MF> instead.
- Very bright object, or dominant object in a dark scene
- Object against the rear side of a moist or dirty glass
- A scene where nearby and distant objects co-exist
- White wall or single-colored object
- Venetian blinds and other horizontally striped objects

ZOOM SPEED

You can adjust the zoom operation speed.

DISPLAY ZOOM

You can set to display the zoom status on the screen.

It will disappear in about 3 seconds if the zoom factor has no further change.

DIGITAL ZOOM

You can set the maximum allowable digital zoom ratio.
Digital Zoom will start operation after it is zoomed in to the maximum optical ratio of x25. If you set DIGITAL ZOOM to x16, you can take a shot at up to x400 (25x16).
When you set DISPLAY ZOOM as on, you may see zoom value on the screen.

DETAIL

Used to adjust the vertical and horizontal distinction, respectively.

V-SYNC

You can set the V-SYNC mode.

- If you select <INT>, the camera will use the internal synchronization.

- If selecting <LINE>, the camera will use an external power frequency for synchronization. The LL-PHASE can be adjusted as appropriate.

- It's a must to use AC 24V power supply when you select line lock for SCZ-2250P(N) andSCZ-3250P(N)
- Line lock is not available for SCZ-2250PD(ND) and SCZ-3250PD(ND)

AGC COLOR SUP

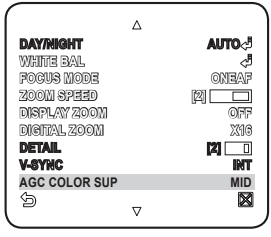
You can adjust the color reproduction range according to AGC.

REVERSE

You can reverse the video signal from left to right, upside down, or vice versa to your convenience.

POSI/NEGA

You can set the video brightness signal to normal or reverse.



PIP

You can view a main image with a sub image on the same screen.

- If more than one PRIVACY ZONE is specified, and PRIVACY SET to <ON>, the PIP function is not available.
- As long as SENSE UP is set to FIXED, PIP menu is not available.
- According to the luminance, PIP will disappear if the SENSE UP menu is set to AUTO.

DIS

If you set it to <ON> for a camera that is trembled or vibrated from an ambient change, this will automatically compensate for the flicker on the screen.

- If you set <DIS> to <ON>, the image will be enlarged with digital zoom as much area as compensated.
  If you set the digital zoom to a larger ratio than the actual enlargement for compensation, the <DIS> function will be disabled.
- <DIS> may not work properly in the following images:
  Flat, i.e., no regular-patterned image / Low contrast scene / High frequency image

taken under a fluorescent lamp / Regular-patterned image.

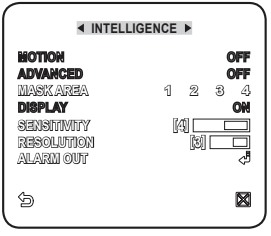
INTELLIGENT VIDEO

You can enable the motion detection and tracking functions.

1. Select <MAIN MENU>-<INTELLIGENCE>.
2. Select each item and set appropriately.

MOTION

You can enable the motion detection and tracking functions.



- If you set it to <DETECTION>, the < FIXED/ MOVED > option of ADVANCED menu will not be available.
- In following situations, motion detection and tracking function may not work properly.
  - When there is sudden changes of brightness
  - When the device moves
  - When a certain object's movement fills most of the framing area
  - When there is difficulties in distinguishing the moving object and background

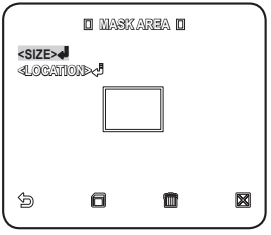
ADVANCED

You can detect motions and mark the video that contains such motion, and enables tracking of the movement.
Selecting the < FIXED/MOVED > option will mark a region if an existing object disappears, or a new object appears and fixed for a certain period of time.

- In following situations, FIXED/MOVED detection may not work properly.
  - When multiple motions continue arbitrarily
  - When the object that is fixed continues to move in the same position.
  - When a newly appearing object conceals another object that is moving.

MASK AREA

1. Select the number of the area to be masked that will be excluded from motion detection.
2. Select the mask number and set the mask size and its coverage.



DISPLAY

When selected < ON >, it displays the motion detected and detection of configured advanced function.

SENSITIVITY

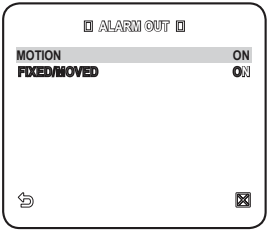
Sets the sensitivity of motion sensor.

RESOLUTION

The bigger the resolution setting, the smaller the object that can be detected.

ALARM OUT

When selected < ON >, it outputs alarm signal when the motion is detected and on a detection of configured advanced function.

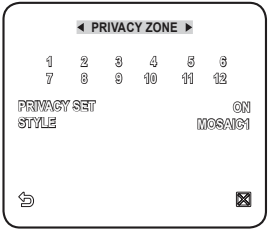


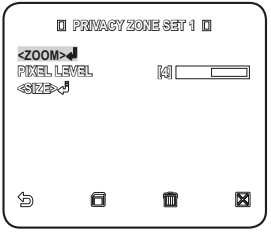
PRIVACY ZONE

You can set up to 12 privacy zones that will be hided for privacy of the subject when recording.

Zone Setup

1. Select <MAIN MENU>-<PRIVACY ZONE>.
2. Select the number of the zone and press [ENTER].
   The Zone setup screen appears.
3. Select the <ZOOM> and press [ENTER].
   Using _+ to locate zoom position.
4. Select the <PIXEL LEVEL>.
   Select the pixel level for the SIZE and LOCATION settings.
5. Select the <SIZE> and press [ENTER].
   Using _+, set the size of the privacy zone.





6. Save the changes and move to the previous screen and select the <STYLE>.
   Select the <COLOR> and pick a desired color.

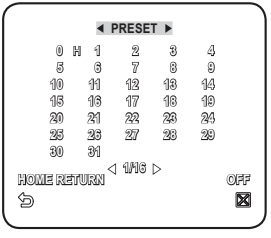
- Setting one or more privacy zone and enabling privacy function will disable the PIP function.
- For better privacy protection, make your privacy zone bigger than the required, bigger by about 30%.
- Video portion of mosaic pattern or colored by the privacy zone setup is not recoverable.

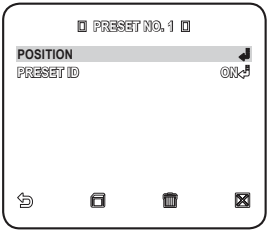
setup

PRESET

This function provides preset camera settings such as zoom and focus so to enable quicker and easier accessing and monitoring, which supports up to 512 presets.

1. Select <MAIN MENU>-<PRESET>.
2. Select the preset number.
3. Select <POSITION>.
4. Set <PRESET ID> to <ON> and enter the name.
   - For entering the name, refer to "CAMERA ID".





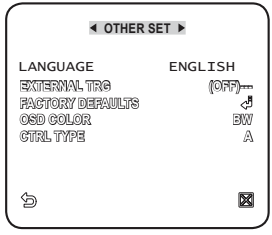
OTHER SET

You can reset the system by running FACTORY DEFAULTS, or set the font color etc.

LANGUAGE

Select <LANGUAGE> and use the left/right button to select a preferred display language.

1. Select <MAIN MENU>-<OTHER SET>.
2. Select each item and set appropriately.

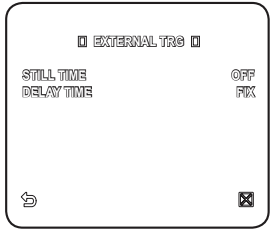


EXTERNALTRG

Set the EXTERNALTRG menu to ON and press the SETUP switch to display the appropriate screen.

You can set the STILL TIME to 0~4 seconds.

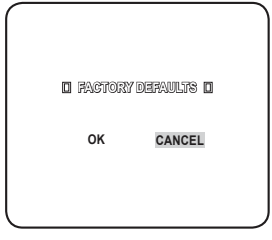
If DELAY TIME is set to FIX, the DELAY TIME will be set in sync with the STILL TIME ; if set to USER, the DELAY TIME will be set to your setting.



- If VPS is set to OFF, the EXTERNAL TRG menu will be deactivated.

FACTORY DEFAULTS

When selected, the < FACTORY DEFAULTS > screen appears and you can reset all settings to the factory default settings by selecting the <OK >. However, the protocol, baud rate, address and the language settings will not be reset.



- Note that the resetting the system to the factory default will erase all settings data.

OSD COLOR

Selects the color of the on-screen display font.

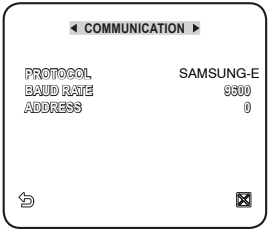
CTRL TYPE

By inputting the wire remote port, you may set up the A, B, C or D mode.

Code	Tele	Wide	Far	Near
A	-6V	+6V	+6V	-6V
B	-6V	+6V	-6V	+6V
C	+6V	-6V	+6V	-6V
D	+6V	-6V	-6V	+6V

COMMUNICATION

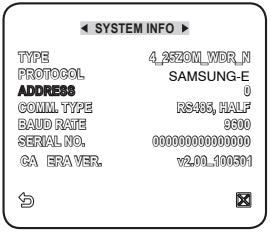
1. Select <MAIN MENU>-<COMMUNICATION>.
2. Select each item and set appropriately.
   - PROTOCOL, BAUD RATE, ADDRESS : You can manually set the protocol, baud rate and address.

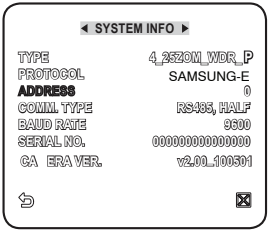


SYSTEM INFO

You can check the system information.

1. Select <MAIN MENU>-<SYSTEM INFO>.
2. The current system information is displayed.





SPECIFICATIONS

Item	Description
Product Type	Power Zoom Camera
Power Source	AC 24V(50Hz), DC 12V
Power Consumption	5.2W
TV Standard	NTSC / PAL STANDARD COLOR SYSTEM
Image Sensor	ExView-HAD PS CCD
Effective Pixels	768(H) × 494(V)
TV line frequency	Horizontal : 15, 734 Hz (INT) / 15, 750 Hz (L/L) Vertical : 59.94 Hz (INT) / 60 Hz (L/L)
Resolution	Horizontal : 600 TV LINES (color) Vertical : 350 TV LINES
S/N Ratio	Approximately 52 dB

Minimum subject illumination	condition			
	SENS-UP	Illumination	Color	B/W
	Off	50IRE	0.7	0.07
	Off	30IRE	0.42	0.042
	Off	15IRE	0.21	0.021
	x512	50IRE	0.00137	0.00014
	x512	30IRE	0.00082	0.00008
	x512	15IRE	0.00041	0.00004

appendix

Item	Description
WDR	X128
Signal Output	COMPOSITE VIDEO OUT : 1.0 Vp-p 75 ohms/BNC
Lens	x25 Zoom Lens Integrated Focal length : 3.66 ~ 91.36mm Aperture : F1.65(Wide) F3.0(Tale) - MOD(Minimum Object Distance) : 1000mm
Electronic shutter speed	High Speed: OFF~1/10K sec Low Speed: OFF~X512
DIGITAL ZOOM	2x ~ 16x
White Balance	ATW1/A TW2/A WC/MANUAL Mode (3200°K, 5600°K, R/B Gain adjustment)
Operation Temperature	-10°C~+50°C
Operation Humidity	~90%
Dimensions (WxHxD)	59mm x 59.2mm x 154.5mm
Weight	: 564g
Product Color	silver